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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
_	09/919,706	08/01/2001	Kenichi Nanpei	1232-4747	5403
	27123 7590 07/31/2007 MORGAN & FINNEGAN, L.L.P. 3 WORLD FINANCIAL CENTER NEW YORK, NY 10281-2101			EXAMINER	
		[HUNTSINGE	HUNTSINGER, PETER K	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	09/919,706	NANPEI, KENICHI			
Office Action Summary	Examiner	Art Unit			
	Peter K. Huntsinger	2625			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 19 Ju	<u>ine 2007</u> .				
2a)⊠ This action is FiNAL . 2b)☐ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) 1,4-10,13-18 and 21-28 is/are pending 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,4-10,13-18 and 21-28 is/are rejected 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	»□·····-	(DTO 440)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	ite			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 6/19/07 have been fully considered but they are not persuasive.

The applicant argues on pages 11 and 12 of the response in essence that:

Pinzarrone '158 does not teach the power is not supplied through the same interface across which image signals are transferred to the external apparatus.

a. Pinzarrone '158 teaches an interface for transferring an image signal read by an image sensing unit to the external apparatus (data pins of the USB cable, see Fig. 2, col. 3, lines 13-22), and wherein power from the external power supply is not provided to the image reading apparatus across the interface (power and ground pins of the USB cable, see Fig. 2, col. 3, lines 13-22).

The applicant argues on page 12 of the response in essence that:

Masuda ' 585 does not disclose initialization after an abnormality of an interface is detected.

b. Masuda '585 discloses de-energizing components after an abnormality of an interface is detected (S56 of Fig. 5B, col. 7, lines 31-41+). The apparatus is in a de-energized state (i.e. off) when powered on so the state is identical to the state at the time when the apparatus is powered on.

Claim Rejections - 35 USC § 103

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2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 4-6, 8-10, 13, 14, 16-18, 21, 22, and 24-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masuda '585, and further in view of Pinzarrone '158.

Referring to claim 1, Masuda '585 discloses an image reading apparatus which operates with power supplied from an external power supply which comprises an image sensing unit for reading an image (see copying machine of Fig. 1), the image apparatus comprising: a detector for detecting an abnormality of an interface on the basis of an electric potential of a predetermined position of the interface (S50 of Fig. 5B, col. 6-7, lines 65-68, 1-11+); and a controller for setting said image reading apparatus in a sleep state with the image reading apparatus being supplied wit power from the external power supply, in response to detection of any abnormality of the interface during an image reading process controlled by the external apparatus until the communication with the external apparatus restarts (S55 of Fig. 5B, col. 7, lines 22-31+), and for controlling initialization of at least one of an internal circuit and mechanical position of the image sensing unit to the state identical to the state at the time when the apparatus is powered on before or after the apparatus is set to the sleep state (S56 of Fig. 5B, col. 7, lines 31-41+). Masuda '585 does not disclose expressly the image forming apparatus

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operating under control of an external apparatus and transferring an image signal to the external interface through an interface.

Pinzarrone '158 discloses an image reading apparatus which operates under control of an external apparatus, and an interface for transferring an image signal read by an image sensing unit to the external apparatus (data pins of the USB cable, see Fig. 2, col. 3, lines 13-22), and wherein power from the external power supply is not provided to the image reading apparatus across the interface (power and ground pins of the USB cable, see Fig. 2, col. 3, lines 13-22).

At the time of the invention, it would have obvious to a person of ordinary skill in the art to control and supply power to an image reading device with a computer. The motivation for doing so would have been to forward scanned images to the computer and eliminate the need for a separate cable from the image reading device to a power outlet. Therefore, it would have been obvious to combine Pinzarrone '158 with Masuda '585 to obtain the invention as specified in claim 1.

Referring to claim 4, Masuda '585 discloses a light source for irradiating a document with light; a moving unit for moving a relative position between an image of the document and said image sensor (copying machine see Fig. 1); and a setting unit for stopping power supply to at least one of said light source and said moving unit in the sleep state in accordance with a setup of a controller (col. 7, lines 34-41+). Masuda '585 does not disclose expressly converting reflected light into an electric signal. Pinzarrone '158 discloses an image sensor for converting light reflected by a document irradiated with light from said light source into an electrical image signal (col. 5-6, lines

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67, 1-5+). At the time of the invention, it would have obvious to a person of ordinary skill in the art to digitally convert scanned images. The motivation for doing so would have been to forward scanned images to the computer. Therefore, it would have been obvious to combine Pinzarrone '158 with Masuda '585 to obtain the invention as specified in claim 4.

Referring to claim 5, Masuda '585 discloses an image reading apparatus but does not disclose expressly an A/D converter and transferring the image to the external device. Pinzarrone '158 discloses an A/D converter that converts the image signal and wherein the signal is sent to an A/D converter for converting the image signal output from the image sensing unit into a digital signal, wherein the interface transfers the digital image signal converted by said A/D converter to the external apparatus (col. 5-6, lines 67, 1-5+). At the time of the invention, it would have obvious to a person of ordinary skill in the art to digitally convert scanned images and forward them to the computer. The motivation for doing so would have been to store scanned images on the computer. Therefore, it would have been obvious to combine Pinzarrone '158 with Masuda '585 to obtain the invention as specified in claim 5.

Referring to claim 6, Masuda '585 discloses wherein said detector detects any abnormality of the communication unit by detecting a change in potential of a power supply line included in the interface (S50 of Fig. 5B, col. 6-7, lines 65-68, 1-11+).

Referring to claim 8, Pinzarrone '158 discloses wherein the interface has a function of allowing to plug/unplug a cable without turning off a power supply of the

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external apparatus (The computer of Fig. 1 must include a connection to a power supply).

Referring to claim 9, Pinzarrone '158 discloses wherein the function of the communication unit complies with USB or IEEE1394 (See Fig. 2).

Referring to claim 10, see the rejection of claim 1 above.

Referring to claim 13, see the rejection of claim 5 above.

Referring to claim 14, see the rejection of claim 6 above.

Referring to claim 16, see the rejection of claim 8 above.

Referring to claim 17, see the rejection of claim 9 above.

Referring to claim 18, see the rejection of claim 1 above.

Referring to claim 21, see the rejection of claim 5 above.

Referring to claim 22, see the rejection of claim 6 above.

Referring to claim 24 see the rejection of claim 8 above.

Referring to claim 25 see the rejection of claim 9 above.

Referring to claim 26 see the rejection of claim 1 above.

Referring to claim 27 see the rejection of claim 8 above.

Referring to claim 28 see the rejection of claim 9 above.

4. Claims 7, 15, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masuda '585 and Pinzarrone '158 as applied to claims 1, 10, and 18 above, and further in view of Juve '428.

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Referring to claim 7, Masuda '585 discloses a detector detecting abnormality of the interface, but does not disclose expressly detecting the voltage of a data line.

Juve '428 discloses detecting a change in a voltage-level of a data line included in an interface.

At the time of the invention, it would have obvious to a person of ordinary skill in the art to detect the voltage of a data line. The motivation for doing so would have been to test the data line for errors. Therefore, it would have been obvious to combine Juve '428 with Masuda '585 and Pinzarrone '158 to obtain the invention as specified in claim 7.

Referring to claim 15, see the rejection of claim 7 above.

Referring to claim 23 see the rejection of claim 7 above.

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter K. Huntsinger whose telephone number is (571)272-7435. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Moe Aung can be reached on (571)272-7314. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.